

B.A.S. Applied Engineering

Revised 03/19/09

BSU Dept. of Technological Studies

Name _____

Phone _____ E-mail _____

Student BSU ID # _____

Liberal Education 42 credits (or MN Transfer)

1. Oral & Written Comm.

(2 courses-min. 6 credits)

Sem. Gr. Cr.

College Writing I			3
College Writing II			3

2. Critical Thinking

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3. Natural Sciences

(2 courses-min. 7 credits-
1 lab requirement)

4. Math/Symbolic Systems

(1 course-min. 3 credits)

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5. History, Social &

Behavioral Sciences

(2 courses-min. 6 credits)

6. Humanities-Arts, Lit. Phil.

(2 courses-min. 5 credits)

7. Human Diversity

(1 course-min. 2 credits)

8. Global Perspective

(1 course-min. 3 credits)

9. Ethical & Civic Responsibility

(1 course-min. 3 credits)

10. People and the Environment

(1 course-min. 3 credits)

11. Performance & Participation

(1 credit or more)

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Special Note For Transfer Students: 128 credits needed for BAS Degree. Transfer students must take a minimum of 30 semester credits from Bemidji State University and must have 40 upper division semester credits required for BAS degree.

Required Technical Core 26 credits

(or 26 Technical Credits transferred from Technical A.S. A.A.S. diploma or degree)

Required Applied Engineering Technology Core-26 credits

Required Applied Engineering Technology Core	Sem.	Gr.	Cr.
IT 3100 Princ & Pract. Of Professional Development			2
IT 3267 Engineering Economic and Cost Analysis			3
IT 3460 Parametric 3-D Modeling			3
IT 3700 Production Planning and Control			3
IT 3877 Engineering Problem Solving			3
IT 4460 Design for Manufacturability			3
IT 4878 Quality Assurance			3
IT 4879 Service Process design and improvement			3
IT 4897 Project Management			3

Applied Engineering Technology Electives – select 14 credits

Applied Engineering Technology Electives	Sem.	Gr.	Cr.
IT 3217 Material Science & Metallurgy			3
IT 3870 Technical Sales/Presentations			2
IT 3879 Performance Measurement			3
IT 3880 Human Resource Development			2
IT 4537 Industrial Design			3
IT 4777 Advanced Topics in Quality			3
IT 4877 Industrial Maintenance & Safety			3
IT 4880 Total Quality Management			3
IT 4970 Internship			3
ENGL 3155 Professional Writing			3
BUAD 3281 Advanced Spreadsheet Design			3
BUAD 3361 Marketing			3
BUAD 3381 Management Information Systems			3
BUAD 3771 Financial Management			3
BUAD 4469 Small Business Case Analysis			3

Subtotal

14 credits

Required Engineering Capstone

Required Engineering Capstone	Sem	Gr.	Cr.
IT4820 Engineering Case Study/Internship			3

Degree Summary

Liberal Education	42 credits
Technical Core	26 credits
Required Applied Engineering Core	26 credits
Applied Engineering Electives	14 credits
Engineering Capstone	3 credits
<u>Free Electives (Additional Technical Electives)</u>	<u>17 credits</u>
Total Credits Required for Graduation	128 credits